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**(54) PRODUCTION METHOD OF CYCLIC OLEFIN ADDITION POLYMER**

**(57)Abstract:**

**PROBLEM TO BE SOLVED:** To provide a norbornene-based cyclic olefin addition polymer, modified in a molecular weight, and having an aromatic substituent at an end of a molecular chain.

**SOLUTION:** When addition-polymerizing a cyclic olefin in a hydrocarbon solvent in the presence of (i) a compound component containing a transition metal of the 8-10 group in the periodic table, (ii) a strong Bronsted acid compound and/or a Lewis acid compound, and (iii) a polymerization catalyst containing an organoaluminium component, at least one kind of aromatic vinyl compound is added as a chain-transfer agent to produce the cyclic olefin addition polymer.

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